EC-COUNCIL
UNIVERSITY
ACCREDITED. FLEXIBLE. ONLINE.

C|ND
Certified Network Defender

ECCU 500

MANAGING SECURE NETWORK SYSTEMS

CERTIFIED NETWORK DEFENDER

DEAC
DISTANCE EDUCATION ACCREDITING COMMISSION

CHEA
A CHEA-recognized Accrediting Organization

ANAB
ANSI National Accreditation Board
ACCREDITED
ISO/IEC 17024
PERSONNEL CERTIFICATION BODY

RANKED AMONG
TOP 10
BY FORTUNE®
FOR IT'S ONLINE CYBERSECURITY MASTER'S DEGREE

FORTUNE
BEST ONLINE MASTER'S
CYBERSECURITY
DEGREES

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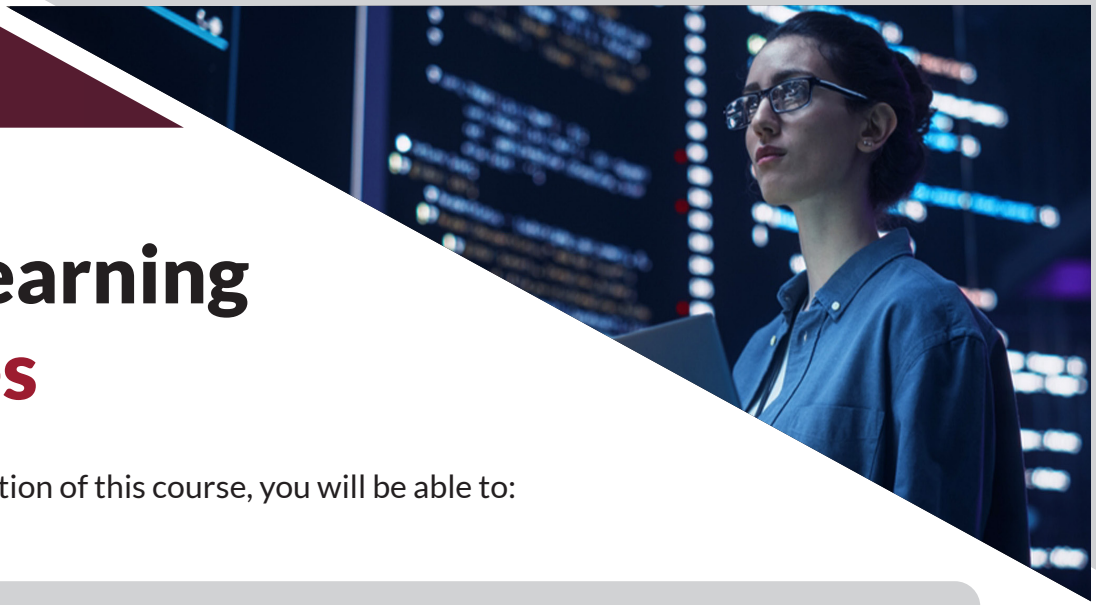
Course Description

This course provides an in-depth understanding of hacking methodologies and frameworks, emphasizing their goals, benefits, challenges, and countermeasures for defense. Students will analyze security concerns, develop strategies to mitigate risks, and examine the evolution of security management in virtualized IT environments. The course covers the implementation of security management solutions and policies in line with best practices and guidelines. Additionally, students will design strategies for ensuring the privacy and security of information, software, and network systems, and develop a comprehensive risk management program, incorporating attack surface analysis and cyber threat intelligence to minimize organizational risks.



Course Learning Outcomes

Upon successful completion of this course, you will be able to:

01 Summarize hacking methodologies and frameworks, including fundamental goals, benefits, challenges, and available countermeasures for defense.

02 Analyze various security concerns and develop strategies to mitigate the risks.

03 Examine the evolution of security management in virtualized IT environments.

04 Implement security management solutions and policies following requisite security guidelines and best practices.

05 Design strategies for the privacy and security of information, elements, software, and network systems.

06 Develop a risk management program and implement strategies such as attack surface analysis and cyber threat intelligence to minimize organizational risks.

Who is it for?

This course is suitable for:

Individuals working in the network administration and cybersecurity domains, including roles such as

- Network Administrator/Engineer
- Network Security Administrator/ Engineer/Analyst
- Cybersecurity Engineer
- Security Analyst
- Network Defense Technician
- Security Operator

Career changers looking to gain specialized knowledge in cybersecurity to transition into the field.

Working professionals aiming to upskill or reskill in specific cybersecurity areas without committing to a full degree program.

Students exploring cybersecurity who want to test the waters before committing to a degree program.

Anyone with an interest in cybersecurity who wants to learn more about the field and develop relevant skills.

Course Highlights

DURATION
10 weeks

STUDY HOURS
Students need to put in about 13.5 hours a week

LIVE CLASSES
Once a week

FACULTY
Industry Experts

Why ECCU?

High Student Satisfaction (89.6%)

Our students are happy! We prioritize creating a positive learning experience that meets your needs and allows you to progress at your own pace.

Proven Employment Outcomes (100%)

Land your dream job! 100% of our graduate's report securing employment within a year of completing their courses. Our curriculum equips you with the knowledge and skills employers seek.

Achieve Your Goals (93.8%)

We support you at every step of the way. A staggering 93.8% of our students successfully achieve their goals upon course completion.

Stay Motivated (91.55%)

Stay engaged and reach your full potential! Our course fosters a high motivation index of 91.55% ensuring you stay committed to your studies and achieve success.

Master Multiple Areas

Develop a continuous Adaptive Security Cycle that helps organizations stay ahead of cybercriminals by creating and improving security systems.

PROTECT

- Defense-In-Depth Security
- Properly Designed, Implemented, and Enforced Security Policies
- Security Architectures
- Appropriate Configuration
- Right Selection of Security Controls

DETECT

- Traffic Monitoring
- Log Management
- Log Monitoring
- Anomalies Detection

RESPOND

- Incident Response
- Forensics Investigation
- Business Continuity (BC)
- Disaster Recovery (DR)

PREDICT

- Risk and Vulnerability Assessment
- Attack Surface Analysis
- Threat Intelligence

Course Outline

WEEK 1

MODULE 01
Hacking Methodologies and Defense Frameworks

WEEK 2

MODULE 02
Analyzing Security Concerns and Mitigating Risks

WEEK 3

MODULE 03
Evolution of Security Management in Virtualized IT Environments

WEEK 4

MODULE 04
Implementing Security Management Solutions and Policies

WEEK 5

MODULE 05
Designing Privacy and Security Strategies

WEEK 6

MODULE 06
Security Management in Virtualized and Cloud IT Environments

WEEK 7

MODULE 07
Implementing Security Solutions and Designing Privacy Strategies

WEEK 8

MODULE 08
Privacy and Security Strategies in Network Systems

WEEK 9

MODULE 09
Security Management and Risk Mitigation Strategies

WEEK 10

MODULE 10
Advanced Risk Management and Threat Mitigation Strategies

ECCU Exam

Attaining the C|ND Certification

Number of Questions
50

Test Format
Multiple-Choice

Duration
2 hours

Availability:
EC-Council University Portal

Holistic Education at ECCU

- Acquire in-depth knowledge through ECCU's resources and platforms.
- Master technical skills with hands-on expertise in ECCU's iLABS.
- Enhance soft skills, such as communication and problem-solving.

Common Job Roles for C|ND

- Cybersecurity Analyst
- Security Engineer
- Risk Management Specialist
- Cloud Security Architect
- Privacy Officer
- Information Security Manager
- Network Security Engineer
- Security Operations Center (SOC) Analyst
- Compliance Analyst
- Security Consultant
- Incident Response Manager
- Cybersecurity Architect
- IT Security Director
- Data Protection Officer (DPO)
- Vulnerability Analyst

Unveil the True University Experience!

- Real-time Updates
- Assignments
- Assessments
- Comprehensive Resources
- Student Interaction
- Faculty Interaction
- 24x7 LMS Support
- Complete Updated Courseware
- 24x7 Online Library

Meet Our Faculty

Dr. David Moured, Phd

Yuri Diogenes, MS

Sandro Tuccinardi, JD

Pamela Garret, MBA

Brian NcDaniel, MS

Julie Beck, MS

Chris Barnhart

Warren Mack, PhD

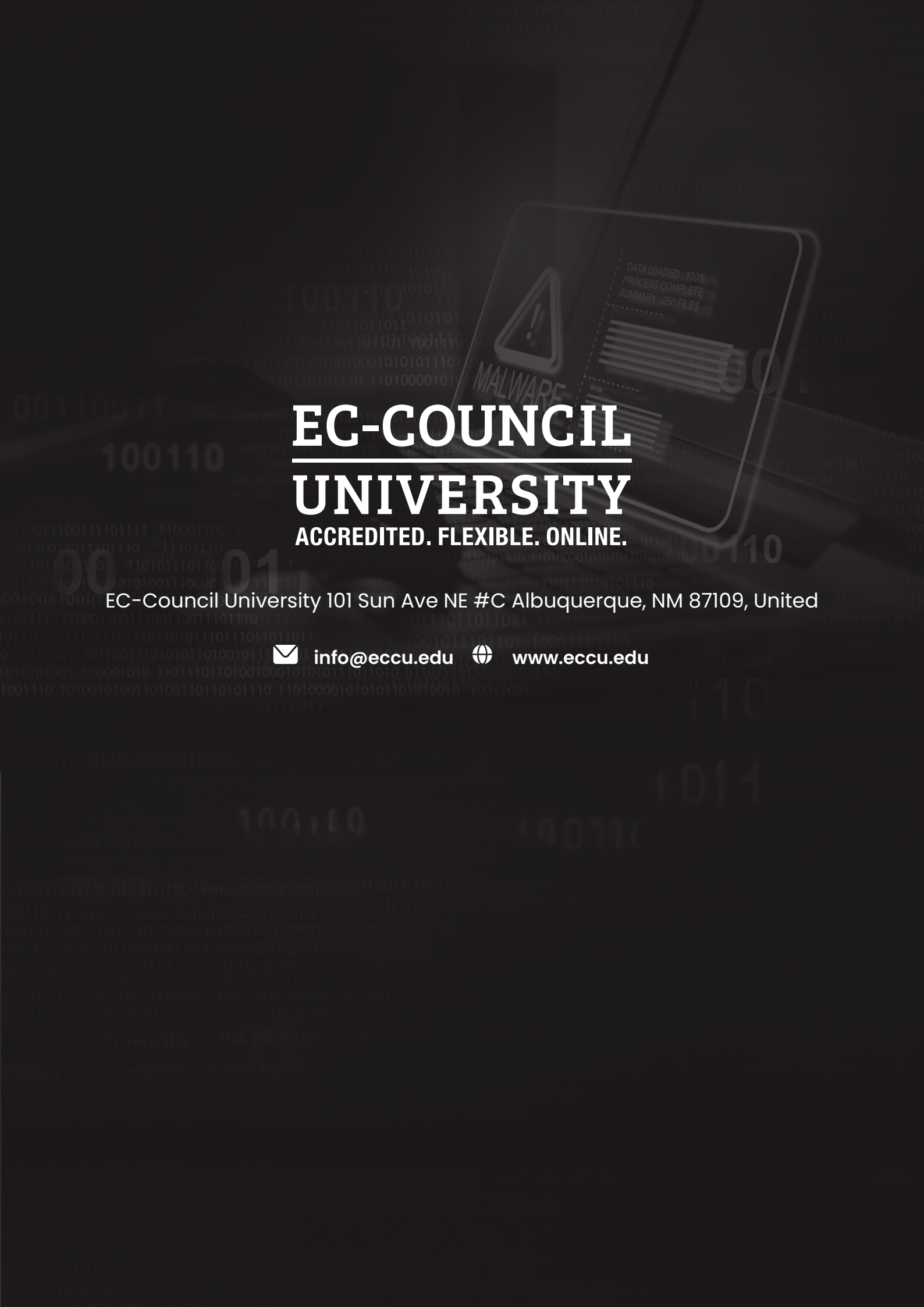
Meet Our Alumni

Master's of Science in Cybersecurity at EC-Council University fueled my career shift from IT general engineer to cloud security engineer, with two promotions along the way!

- Takahiro Oda
Master's of Science in Cybersecurity
Cloud infrastructure security engineer at PayPay Corporation

I have not seen any scarcity in the cybersecurity and information security market. In fact, I went from a security analyst to a senior manager at one of India's leading general insurance companies after earning my degree from EC-Council University.

- Varad Gunjkar
Master's of Science in Cybersecurity
Senior Manager at ICICI Lombard



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